LAURESCU C.

RUMANIA

TICH MINH, Hoang, Professor; LAURESCU, C., MD; BRAUN, I., MD; ZAMFIR, Gh., MD; VAN SÖ, Pham; VAN MAU, Nguyen.

Work compiled at the Institute of Hygiene in Hanoi, during the activity of the Rumanian sanitary team in the Democratic Republic of Vietnam, 1959-1960.

Bucharest, Igiena, Vol XII, No 2, Mar-Apr 63, pp 149-154.

"Enrichment in Vitamin B_1 of "Nuoc-Mam", a national Vietnamese Food."

(6)

LAURESCU, Const.; POPA, Gavrila

Evaluation of the freshness of beef by determination of ammonia in fluid extract. Rev. igiena microb. epidem., Budur. no.3:81-88 July-Sept 54.

(MEAT

beef, determ. of ammonia in fluid extract for evaluation of freshness of meat) (AMMONIA, determination in meat extract, value in evaluation of freshness of meat)

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COUNTER

: RUMANIA

CATEGORY

: Chemical Technology. Chemical Products and Their

Annlications. Food Industry

ABS. JOUR.

69592 : RZhKhim., No 19, 1959, No.

AUTHOR-

: Laurescu, C.; Pona, G.

THEOLOGIC Line

: Determination of Ammonism Content In the Sterilized

Ment Preservos

ORIG. PUB.

: Igiena, 1957, 6, No 3, 266-273

ABSTRACT

: Presented are the results of NH3 determinations in fresh beef and pork, in beef and pork after 2-3 days of storage in a refrigerator and in the "Moat in Its Own Juice" preserves made of the same type of meat immediately after sterilization (1200, 90 min.) and 1 month after the sterilization. It was established that NH3 content in preserves made of fresh work and beef increased in the process of manufacture and up to the end of sterilization respectively by 19.5 and 23 mg %, in the meat preserves stored in refrigerators respectively

Card:

1/2

SOV/137-58-10-21156

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 105 (USSR)

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AUTHOR: La

Lauri [Lauri, K.]

TITLE:

Welding Jigs (Svarochnyye prisposobleniya) in Estonian

PERIODICAL: Tehnika ja tootmine, 1958, Nr 3, p 23;

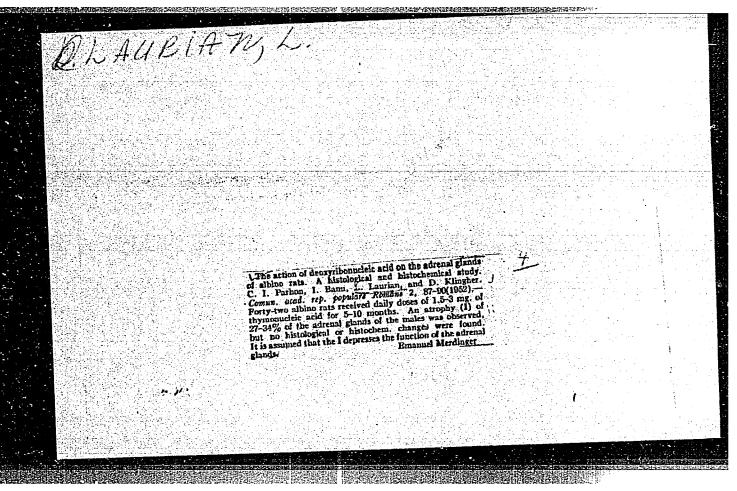
ABSTRACT:

A stand (S) for welding and assembly of frame-shaped components is proposed. The parts to be welded are positioned on the S by means of two adjustable pins and are then secured with the aid of a bolt-and-nut arrangement. The frame of the S is balanced by means of a counterweight and is equipped with two rings permitting free rotation.

1. Welding--Equipment

I. G.

Card 1/1



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	The orientation of embryogenesis. 111. Action of	
	The orientation of embryogenesis. III. Action thyroxine on the combryonic and postembryonic develop-	
	thyromus and N. ment of the chicken. C. I. Parhon, Lydia Laurian, and N. ment of the chicken. Rep. Populate Kondase 5, 69-81 Albu. Comus. Aind. Rep. Populate Kondase 5, 69-81 Albu. Comus. Aind. Rep. Populate Kondase 5, 10-81 Albu. Comus. The Chickens received daily in- Albu. Replyrog of Leghern chickens received daily in-	
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USSR / General Biology. Individual Development.

B-4

Abs Jour: Ref Zhur-Biol., No 10, 1958, 42817.

Author : Parkhon, K. I.; Laurian, Lidiya; Belechanu, Marianna;

Albu-Aderka, Nataliya.

Inst : Not given.

Title : Controlled Embryogenesis. Report 5. Effect of In-

sulin on Hen Embryonic Development (Congenital

Cataract and Achondroplasia).

Orig Pub: Zh. med. nauk. Akad. RNR, 1956, 1, No 2, 5-47.

Abstract: Studies were conducted on eggs of White Leghorn and Rhode Island varieties. All told, 1000 eggs were used. Insulin (I) was introduced either by drops on the chorioaliantois, or by injection through the shell. The eggs were treated daily or every other day, beginning with the 7th and up to the 14th day of incubation. In each injection

Card 1/3

13

USSR / General Biology. Individual Development.

B-4

Abs Jour: Ref Zhur-Biol., No 10, 1958, 42817.

Abstract: usually 4-8 Y of I was introduced, dissolved in usually 4=0 t of 1 was introduced, ulssolved in 0.008-0.05 ml of distilled water, so that the embryo received a total dose of 4-72 %. The control embryos were given distilled water, solutions of phenol, cresol, and acidified cresol in the same phenol concentrations and at the same ph as the I solutions. tions. Introduction of daily I doses up to a total doeage of 20-72 K, beginning with the 7, 8 and 9th day of incubation, causes the formation of a partial or total bilateral cataract, appearance of achondroplasia, different degrees of delayed total development, and a lengthening of the incubation development, and a lengthening of the incubation period by 1-3 days. In order to develop achondro-

Cerd 2/3

PARHON, C. I., Academician; LAURIAN, L.; BALACEANU, M.; ALEU, N.

Experiments on controlled embryogenesis. Bul. stint., sect. med.
8 no.2:457-498 Apr-June 56.

(EMBRYO
attempted conrol of develop. of chick embryo with hormones, tissue extracts, insulin & other drugs)
(HORMONES, eff.
on develop. of chick embryo)
(ITSSUE KATRACTS, eff.
on develop. of chick embryo)
(INSULIN, eff.
on develop. of chick embryo)

RUMANIA/Human and Animal Physiology (Normal and Pathological)

Internal Secretion. Epiphysis.

Abs Jour : Ref Zhur Diol., No 6, 1959, 26745

Author : Parhon, C.I., Laurian, L., Balaceanu, M., Albu, N.

Inst : Title : XVII. The Influence of Epiphysis on Endocrine Glards

of Chicken Embryo

Orig Pub : Studii si cercetari endocrinol. Acad, RFR, 1957, 8,

No 1, 104-105

Abstract : The introduction of epiphysis extract (EE) to chicken

embryo stimulates the development, growth and appearance of feathers and also increases resistance to pathogenic factors. In one-day-old chicks which received EE during embryonal period, no changes were found in hypophysis, adrenals, thyroid, thymus and pancreas, testes logged somewhat in development. In control chicks spermatog

Coniae and spermatocytes were discovered; in those

Card 1/2

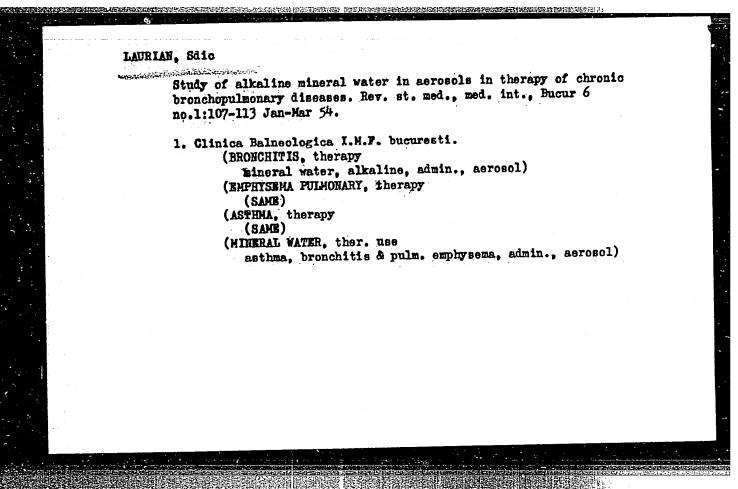
RUMANIA/Human and Animal Physiology (Normal and Pathological)

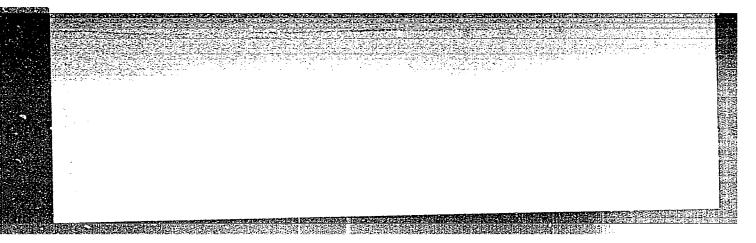
APPROVED FOR RELEASE! 36/20/2000 Physiphysia-RDP86-00513R000928810018-4"

Abs Jour : Ref Zhur Biol., No 6, 1959, 26745

receiving EE only spermatogoniae with single spermatocytes. -- S.M. Malamud

LAURIAN, N. Relations between the vestibular apparatus and the cerebral cortex; labyrinthine conditioned reflexes in cate. Bul. stiint., sect. med. 6 no.3:653-661 July-Sept 54. 1. Communicare presentata de academician A.Kreindler in sedinta din 30 octombrie 1953. (VESTIBULAR APPARATUS, physiology relation to cerebral cortex, in rabbits) (CEREBRAL CORTEX, PHYSIOLOGY relation to vestibular funct. in rabbits) (HEFLEX, CONDITIONED) labyrinthine, exper. form in rabbits)





RUMANIA/Human and Animal Physiology - Physiology of Work and T-12 Sport.

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32303

Author : Solomon, L., Laurian, S., Vulcan, V.

Inst:
Title: Temperature of the Body as an Indicator of Thermic Comfort or Discomfort Depending on the Microclimate of the Place.

Orig Pub : Igiena, 1956, 5, No 4, 17-27.

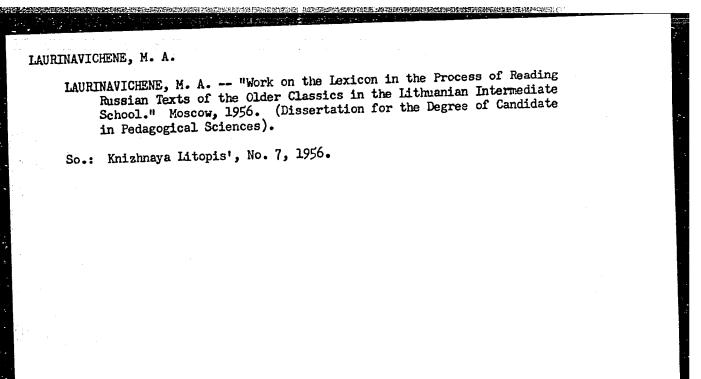
Abstract : No abstract.

Card 1/1

- 162 -

S. LAURIAN, OERIN, S., VOINESCU, M., IONESCU, M., WEITMAN, R., WEXLER, B., and SCHOR, M.

Rolation between the chemical structure and the tuberculoatatic action of chemotherapeutic agents. I. Thiosemicarbazone. S. Oerin, M. Voinescu, M. Ionescu, R. Weitman, B. Wexler, S. Laurian, and M. Schor. Acad. rep. populare Romine, Bul. Stiint. Sect. Stiint. med. 8, No. 1, 297-305 (1956).—The etherification of the hydroxyl group of p-hydroxbensalthiosenicar bazone (I) with glycerol gives the p-dlhydroxypropobenzalthiosemicarbazone, which has a different toxicity and tuber-culostatic activity as compared to the original compound I, depending on the position of the glyceryl radical. In the ortho compd., the tuberculostatic activity is enhanced as well as the toxicity. In the meta compd., the activity is diminished, which the toxicity is increased, and finally in the para compd., the tuberculostatic activity is increased while the toxicity is diminished. The aminobenzalthiosemicarbazones, with the amino group blocked with allythiocrea, has in vitro a higher activity that the p-acetylaminobenzalthiosemicarbazone (T. B. 1) and a lower toxicity. In the series of o-,m-, and p-allyl-thioureidobenzalthiosemicarbazones, the more sective seems to be the metal, derivative, which produces in vitro, son Sauton media, a total inhibition of 1 X 10 and a partial inhibition of 1 X 10 . T. B. 1 produces 2 X 10 to 4 X 10 resp.



LAURINAVICHYUS, S.A. [Laurinavicius, S.A.], red.; LUKOSHEVICHYUS, St. [Lukoshevicius, St.], tekhn. red.

[Measures for the development of agricultural production; eastern zone of Lithuania] Meropriiatiia po razvitiiu sel'skogo proizvodstva zona Litvy. Vilnius, Gos. izd-vo polit. i nauchn. lit-ry, 1960. 191 p. (MIRA 14:10)

1. Lithuanian S.S.R. Žemės ūkio ministerija. (Lithuania—Agriculture)

IJP(c) RDW/JD/AT EWT(1)/EWT(m)/EWP(t)/ETI 40859--66 SOURCE CODE: UR/2910/65/005/003/0409/0415 ACC NR: AUTHOR: Gashka, I. I. -- Gaska, I.; Laurinavichyus, A. K. -- Laurinavicius, A. ORG: Vil'nyus State University im. V. Kapsukas (Vil'nyusskiy Gosudarstvennyy universitet) TITLE: Investigation of photoconductivity in polycrystalline CdS and CdSe SOURCE: AN LitSSR. Litovskiy fizicheskiy sbornik. v. 5, no. 3. 1965, 409-415 TOPIC TAGS: cadmium sulfide, cadmium selenide, semiconductor conductivity, photoconductivity ABSTRACT: To elucidate the mechanism of photoconductivity of high-resistance semiconductors, the photoconductivity of polycrystalline CdS and CdSe semiconductors was investigated by two methods, one of which reacted only to a change of the intercrystalline barriers and the other to a change in the concentration of the carriers. The highresistance polycrystalline conductors are represented as a heterogenous system consisting of randomly oriented crystals of the semiconductor surrounded by the intercrys talline substance. A potential barrier arises between the individual crystals. A modified cavity resonator method which permits measuring the absolute magnitude of conductivity is used in the investigation. The conductivity of the investigated specimens was changed by means of illumination from two incandescent lamps through a hole; in the end of the resonator. The intensity of the illumination was changed by means of

L 40859-66

ACC NR: AT6023226

neutral filters. The investigated specimens were tablets 1.2 mm thick and 8.0 mm in diameter pressed from CdS and CdSe. The change of conductivity as a function of the intensity of illumination of the specimens operating on d-c and an SHF current was investigated. It was found that there was a great difference between the results obtained for SHF and d-c. For the d-c the lux-ampere characteristics are nonlinear, whereas for the SHF current the conductivity changes by a linear law. For d-c the conductivity changed on the average by a factor of 10⁴--10⁵, whereas for the SHF current the change was only by 1 order. For all specimens the conductivity measured for the SHF current proved to be several orders higher than that for the d-c. This result shows that the conductivity of the crystals is much greater than that of the barriers. The results obtained are explained well by the barrier theory of photoconductivity. This permits the conclusion that in high-resistance nonsingle-crystal semiconductors the intercrystalline barriers are the main contributors to a change in the conductivity of photoresistors. Orig. art. has: 1 table, 5 figures, and 19 formulas.

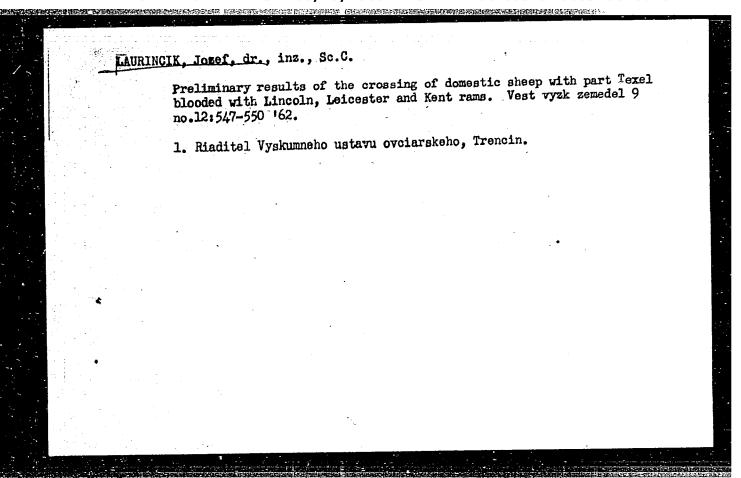
SUB CODE: 20/ SUBM DATE: 01Feb65/ ORIG REF: 008/ OTH REF: 006

Card 2/2 CC

LAURINCIK, Jozef, dr., inz., C.Sc.

Activities of the Sheep Breeding Research Institute in Trencin. Vestnik vyzk zemedel 10 no.1:40-43 '63.

1. Riaditel Vyskumneho ustavu ovciarskeho, Trencin.

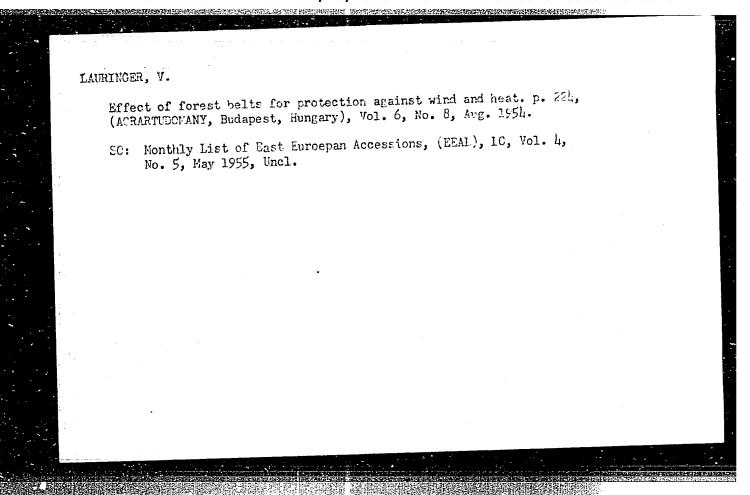


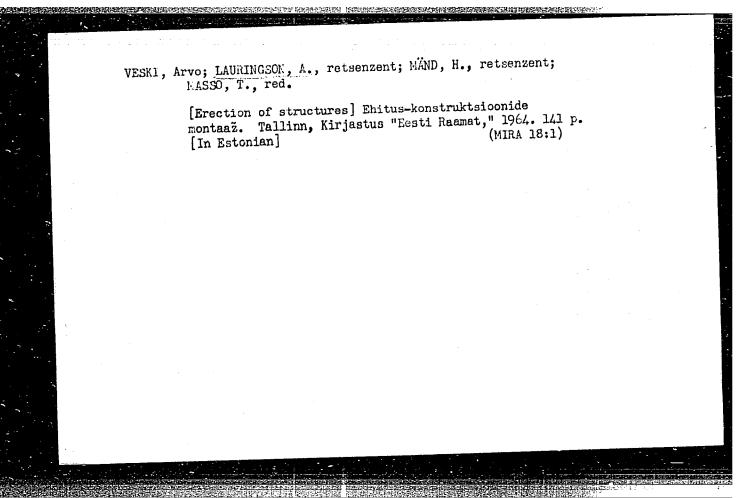
IAURINGER, V.

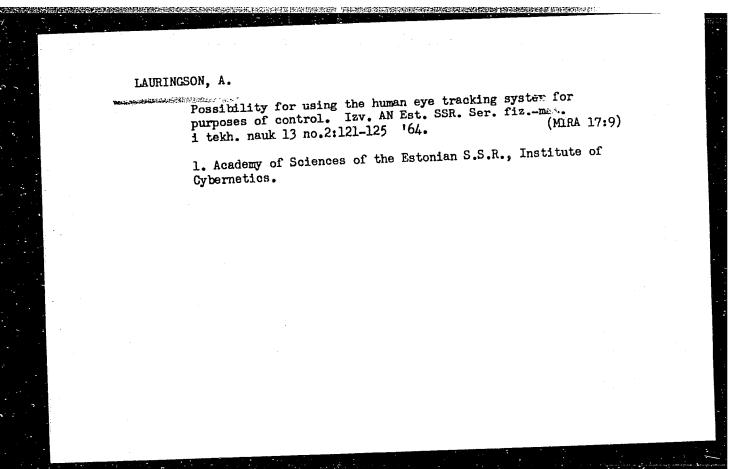
"The Lessons of Forest Belt Planting in the Experimental Farms of Sopromiorpacs in 1952" p. 320 (Agrartudomany, Vol. 5, No. 10, October, 1953, Budapest)

East European Vol. 3, No. 3

So: Monthly List of ANALYMAN Accessions, Library of Congress, March APRA, Uncl.







LAURINGSON, A.I.; SHCHEDROVITSKIY, L.P.

Some data on the tracking system of an eye. Biofizika 10 no.1:
137-140 '65. (MIRA 18:5)

1. Institut avtomatiki i telemekhaniki AN SSSR, Moskva.

1 38972-65 AP5009290 ACCESSION NR:

8/0217/65/010/002/0369/0369

AUTHOR: Lauringson, A. I.; Shchedrovitskiy, L. P.

TITLE: The accuracy of eye movement following displaced fixation points

SOURCE: Biofizika, v. 10, no. 2, 1965, 369

TOPIC TAGS: photo optics, ocular dynamics, fixation point, optometry

ABSTRACT: The purpose of the experiment was to determine the accuracy of eye tracking movements. The subject's head was placed rigidly facing a screen on which were fixed and moving points of light. The angular displacement between fixed and moving points was 1, 2.5, 5, 7.5, and 10° in any direction. The distance between the screen and the subject's eyes was 1.6 m. A photo-optical method was used to register eye motion. Individual eye movements including fixation on initial and final points and tracking of a skipping point or points were photographed. By comparing the dynamics of eye movements in response to uniform stimuli it was possible to establish the accuracy of eye tracking motion. The data revealed that at all angular displacements regardless of the direction, the accuracy of eye tracking was on the order of 4.5-6'. Tracking motions were accomplished with 1, 2, and in some cases, 3 hops of the eye. The number of hops depended on the magnitude of

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ACCESSION NR: AP5009290

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displacement. At 1°, eye tracking movement across the screen took place in one hop. At angular values of 7.5 and 10°, however, 1 hop per tracking motion was observed in only 10% of the cases. It was found that the first hop in that tracking motion containing several hops was, in most cases, shorter (10 times) than the whole tracking motion. The error in the direction of the first hop of the eye was most often 1—5°, sometimes reaching 15°. The direction along a horizontal plane was more accurate. In many cases, hopping took place along a distorted trajectory. Of interest was the fact that jumps between identical original and terminal points could have different trajectories. The accuracy established in the experiment (4.5—6') corresponds well with the magnitude of zones of insensitivity determined by Glezer in 1959. Orig. art. has: 1 figure.

ASSOCIATION: Institut avtomatiki i telemekhaniki AN SSSR, Moscow (Institute of Automation and Telemechanics, AN SSSR)

SUBMITTED: 02Jun64

ENCL: 00

SUB CODE: LS,OP

NO REF SOV: 001

OTHER: 000

ATD PRESS: 3228

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Card 2/2

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000928810018-4

WW/RM EWT(m)/EWP(1)SOURCE CODE: UR/0191/66/000/009/0010/0011 L 08793-67 ACC NR: AP6030843 AUTHOR: Gel'fman, Ya. A.; Zemlyanskiy, N. N.; Lauris, I. V.; Syutkina, O. P.; Kuskova, V. P.; Panov, Ye. M. ORG: none TITLE: Stabilization of polyvinylchloride by organotinoxanes SOURCE: Plasticheskiye massy, no. 9, 1966, 10-11 TOPIC TAGS: vinyl chloride, polymer, tin compound, organotin compound, organometallic compound, solid mechanical property, heat resistance ABSTRACT: The effect of organotinoxane-type additives [CH3COO(C4H9)2SnO, $\text{CH}_3\text{COO}[(\text{C}_4\text{H}_9)_2\text{SnO}]_4\text{OCCH}_3, \text{ and } [\text{C}_{11}\text{H}_{23}\text{COO}(\text{C}_4\text{H}_9)_2\text{Sn}]_2\text{O}] \text{ on the thermal stability of } \\$ polyvinylchloride was investigated. The aging characteristics of the stabilized PVC was tested according to GOST 10226-62 and the decomposition temperature was tested according to the GOST5960-51 standard. It was found that the PVC stabilized with organotinoxanes had a thermal stability comparable to that of PVC stabilized with conventional R2PbX2 stabilizers. It was also found that the organotinoxane stabilizer based on acetic acid was as effective as that based on lauric acid. Orig. art. has: tables. SUB CODE: 11/ SUBM DATE: 00/ ORIG REF: 004/ OTH REF: 004. 678.743.22:678.048.9 UDC:

LAURIS, V.

Sowing of knowledge yields results. Sov. profsoiuzy 20 no.3: 10-12 F 164. (MIRA 17:3)

1. Sekretar' Latviyskogo respublikanskogo soveta professional'— nykh soyuzov, predsedatel' byuro po rukovodstvu profsoyuznymi organizatsiyami sel'skogo khozyaystva, Riga.

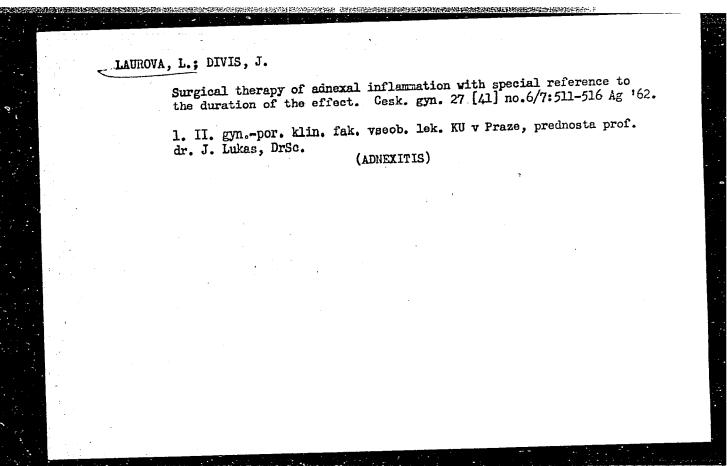
MOVNIN, Mikhail Savel'yevich; IZRAYELIT, Aron Borisovich;
MKHITAROV, G.M., inzh., retsenzent; LAUTNER, E.K., nauchn.
red.; SHAURAK, Ye.N., red.

[Theoretical mechanics] Teoreticheskaia mekhanika. Leningrad, Sudostroenie, 1964. 355 p. (MIRA 17:9)

LAURNET, R.

"Contribution to the Question of the Quieting of Agitated Psychiatric Patients. Following a Lecture in the Seminar of the State Therapy Institute in Dobran."

SO: Neurol. a psych., Prague, Vol. 16 (1953), No. 3, po. 129-133.



LAUROVA, L.; MACKU, F.; TRNKA, V.

Some coments and experiences with the Aldridge technic of abdominal hysterectomy. Gesk. gynek. 29 no.5:331-333 Je 64.

1. II. gyn.-pcr. klin. lek. fak. vsech. lek. KU [Karlovy University] v Prame; prednosta: prof. dr. J. Inkas, DrSc.

LAUROW, Z.

"Wood drying by making use of the sucking capability of the tree crown."
p. 49 (Sylwan, Vol 102, no. 9, Sept 1958, Warsaw, Poland)

Monthly Index of East European Accessions (AAEI) LC, Vol 9, Sept 58

LAUROW, Z.

An attempt at evaluating the usefulness of the method of boring for moisture research. p. 19

SYLWAN (Wydzial Nauk Rolniczych i Lesnych Polskiej Akademii Nauk i Polskie Towarzystwo Lesne) Warszawa, Poland. Vol. 103, no. 3, Mar 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, September 1959. Uncl.

LAUS, D.

Problems of autumn variation in railroad transportation. p. 12 ZELEZNICE, Beograd, Vol 12, No. 1, Jan., 1956

SO: EEAL, Vol 5, No. 7, July, 1956

LAUS, S.; LOVRECEK, I.

Drying lignite from Yukomericko Gorice. p. 109.

KEMIJA U ENDUSTRIJI. (Drustvo kemicara-tehnologa HCH) Zagreb, Yugoslavia.

Vol. 8, no. 5, May 1959.

Monthly list of the East European Accessions (EEAI), IC, Vol. 8, no. 8, Aug. 1959.

Uncl.

ETZEN, O.G.: KIVIRYAKHK, S.V.: KOGERHAN, A.P.: LAUS, T.N.: AFFO, I.Kh.

Chemical composition of tar from dictyonemic shale. Khim.i
tekh.topl. i masel 5 no.9:37-42 S '60. (MIRA 13:9)

1. Institut khimii AN ESSR.
(Estonia—Oil shale)

38591

s/081/62/000/010/074/085 B166/B144

AUTHORS:

Lausch, Adam, Sulima, Tadeusz, Wajda, Helma, Rodziński, Władysław, Matyszkiewicz, Stanisław, Nikodem, Jan, Okrasa,

Jerzy

TITLE:

A method of producing varnish for impregnating fabric in the

production of electrical insulating panels

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 10, 1962, 635, abstract

10P239 (Rolish Patent 44508, June 7, 1961)

TEXT: The varnish for impregnating fabric to be used for electrical insulating panels is obtained by mixing a solution of epoxy resin in acetone along with an amine curing agent and a solution of phenolic resin, without free phenol, in C2H5 OH with added urotropine. The special feature

of this method is the use of a phenolic resin with the free phenol removed by toluene extraction. Electrical insulating panels made with the aforesaid varnish show high mechanical strength and heat resistance up to 180°C. Example. A solution is prepared with 51.5 parts by weight epoxy

Card 1/2

CIA-RDP86-00513R000928810018-4" **APPROVED FOR RELEASE: 06/20/2000**

A method of producing varnish ..

S/081/62/000/010/074/085 B166/B144

resin and 2.5 parts by weight amine in 46 acetone. To prepare the phenol-free resin 55 parts by weight phenol and 45 parts by weight 40% CH₂O with HCl (specific gravity 1.1), added at the rate of 1 ml per 1 kg of phenol, are heated at 95-100°C and at normal pressure for 40 min. When condensation is complete the resin is distilled in vacuo (residual pressure 200 mm Hg). The dehydrated resin is treated with toluene in a ratio of 1:1, after which the remaining toluene is distilled off in vacuo (residual pressure 200 mm Hg). A solution is prepared from 48 parts by weight phenol-free resin and 4 parts by weight urotropine in 48 parts by weight C₂H₅OH. The varnish is obtained by mixing 95% of the epoxy resin solution and 5% of the phenolic resin solution. Glass fabric is steeped in the varnish and is impregnated so as to contain 30-40% resin after drying. [Abstracter's note: Complete translation.]

Card 2/2

S/081/62/000/013/050/054 B160/B101

AUTHORS:

Smoczyński, Jozef, Lausch, Adam

TITLE:

A method of producing electrical insulating varnish

TIIDE.

Referativnyy zhurnal. Khimiya, no. 13, 1962, 638, abstract

PERIODICAL: Referativnyy Zhurhal. Razmayay 21, 1960)

TEXT: Terephthalic acid is esterized with a mixture of ethylene and diethylene glycol in the proportion 1:1-2:1 in the presence of ZnCl₂ and Ca(CH₃COO)₂ as catalysts and then using glycerine. 0.7-1 part by weight of the glycol mixture is used to 1 part by weight of terephthalic acid. The glycerine is added at the rate of 1 part by weight to 3-4 parts by the glycerine is added at the rate of 1 part by weight at 250°C weight of the glycol mixture. The ester obtained is distilled at 250°C weight of the glycol mixture with a small amount of adipic acid added and in a vacuum for several hours with a small amount of adipic acid added and the product was dissolved in a mixture of cresol and solvent naphtha. The coatings are heat-resistant up to 155°C, are resistant to moisture and chemical reagents, have high elasticity, give good adhesion to a conductor, stability to ageing and good dielectric properties. Unlike other varnishes

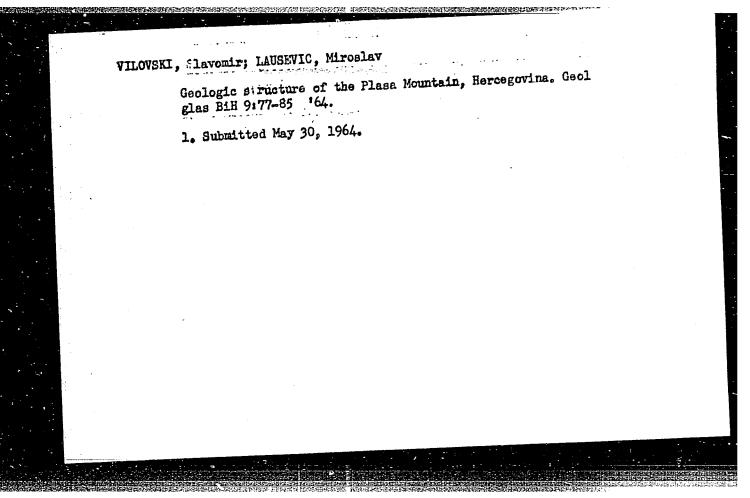
A method of producing electrical...

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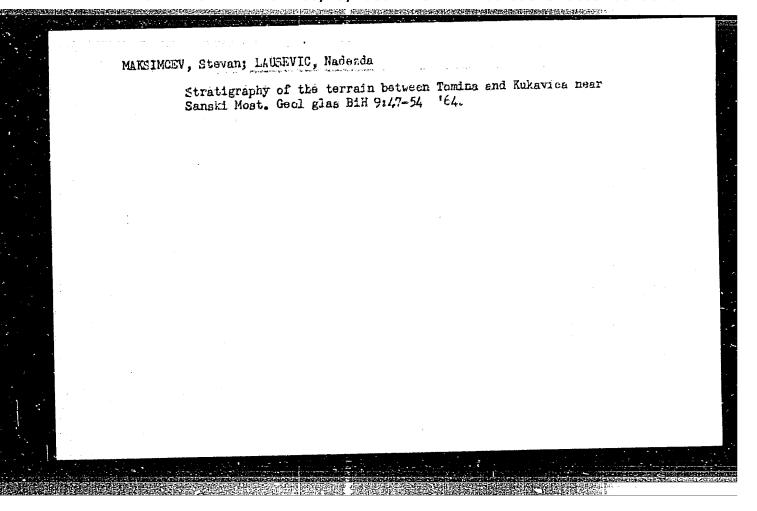
does not run and the coating is even in thickness. Example: 180 g of terephthalic acid are added to a mixture of 210 g of ethylene glycol and 150 g of diethylene glycol. The mixture is heated to 200°C in the presence of 2 g of ZnCl₂ and 0.4 g of Ca(CH₃00)₂. Then 100 g of terephthalic acid are added, heating is continued for 1 hour at the same temperature, another 100 g of terephthalic acid are added and heated for 1.5 hours at 200°C, 100 g of glycerine are added and heated for 3-5 hours at 200°C. The reaction mixture is distilled in a vacuum for 1 hour, the temperature being gradually raised to 210°C at a pressure of 60 mm Hg; 5 g of adipic acid are added and the mixture distilled in a vacuum for 2.5 hours, the temperature being gradually raised to 250°C at a pressure of 1 mm Hg. The product is dissolved in a mixture of cresol and solvent naphtha so that the dry residue content is 35-45%. The solution is filtered and centrifuged. The varnish so obtained is suitable for enamelling round and rectangular copper winding wire and for other purposes where electrical insulating materials with a high resistance to heat are required. Abstracter's note: Complete translation.

based on terephthalic acid used for enamelling conductors, this varnish

Card 2/2



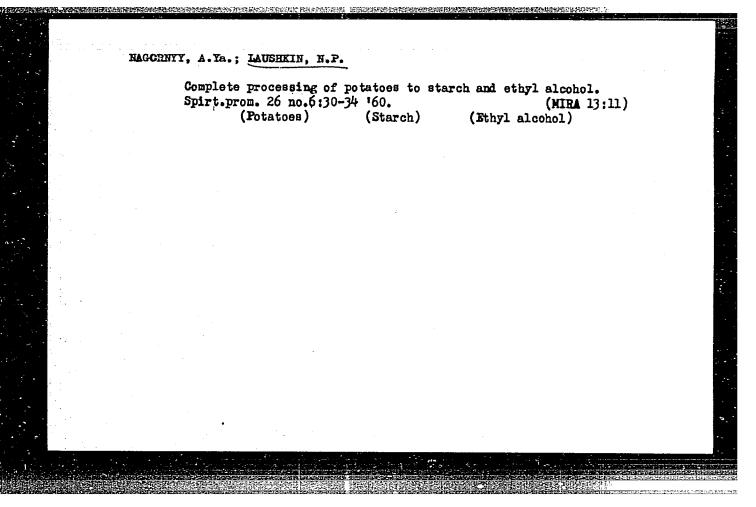
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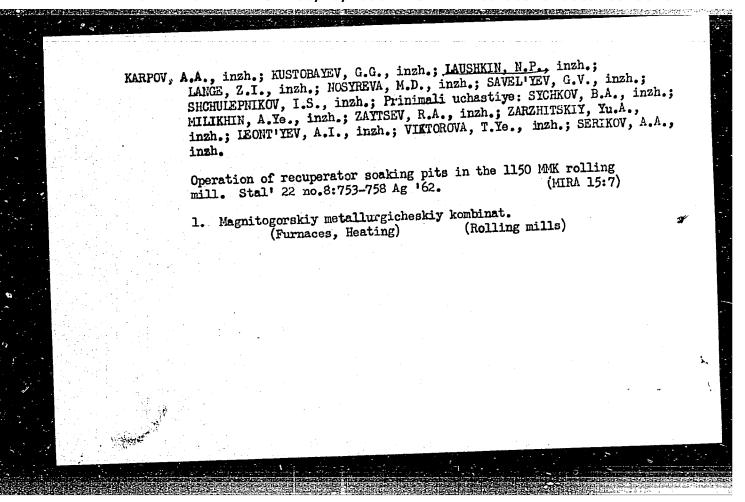


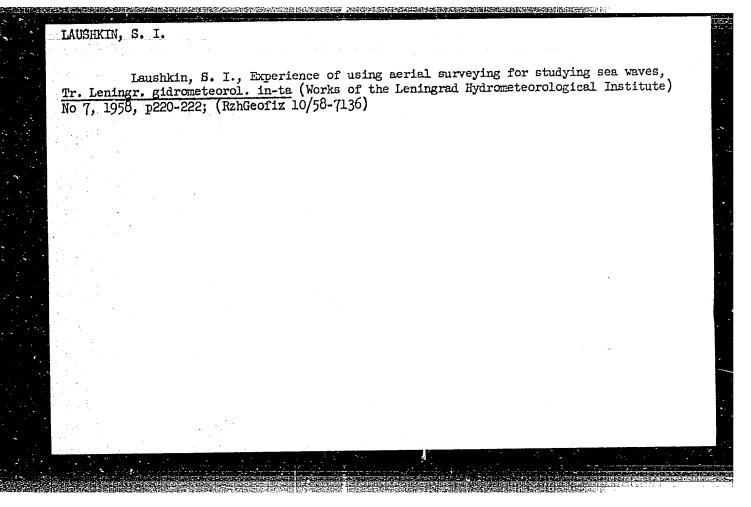
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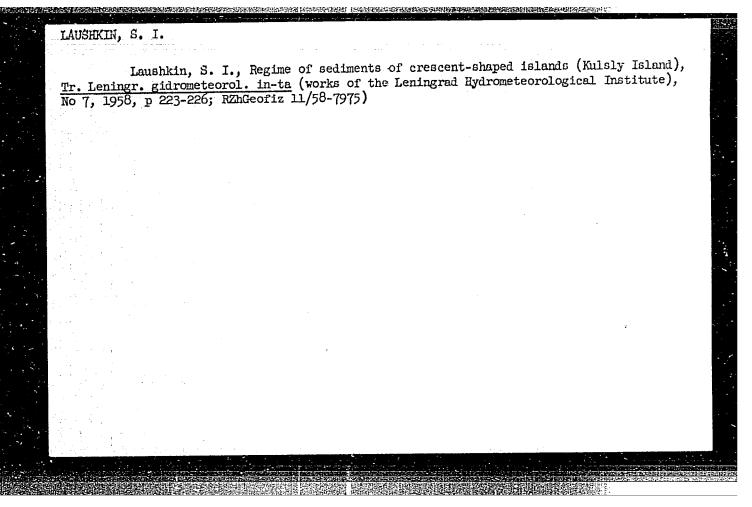
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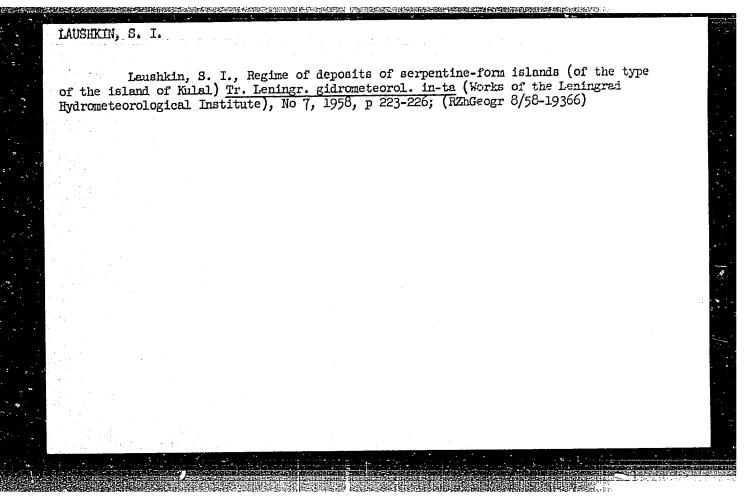
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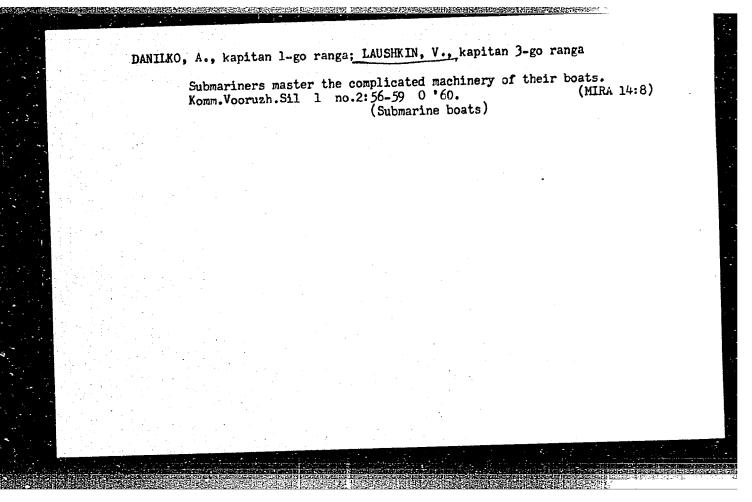


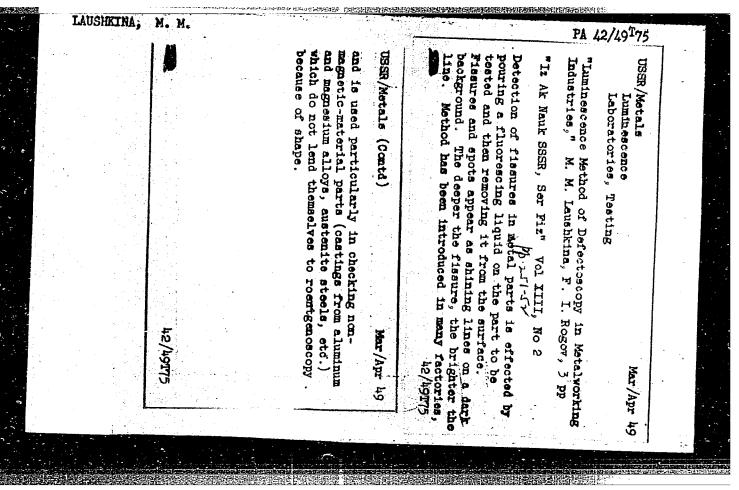












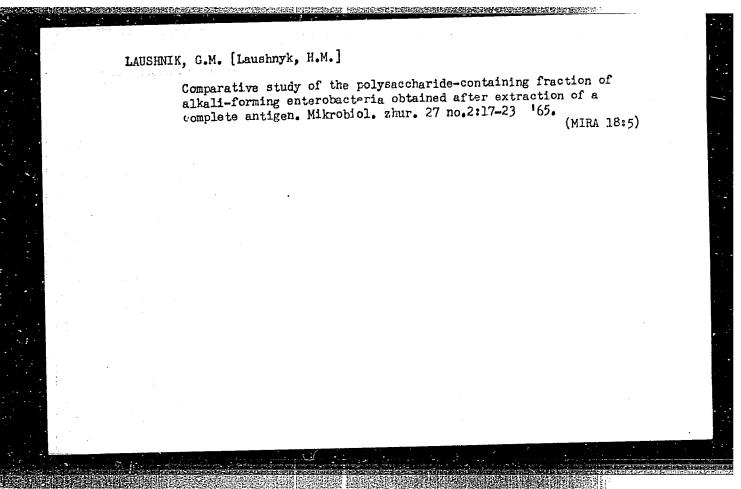
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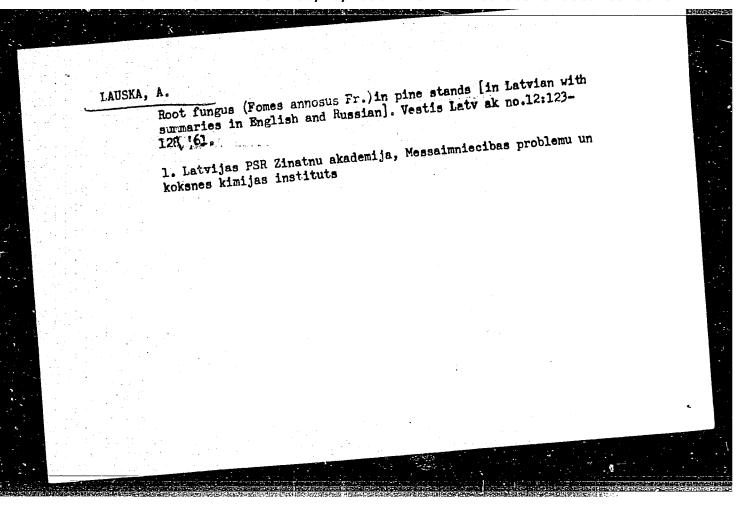
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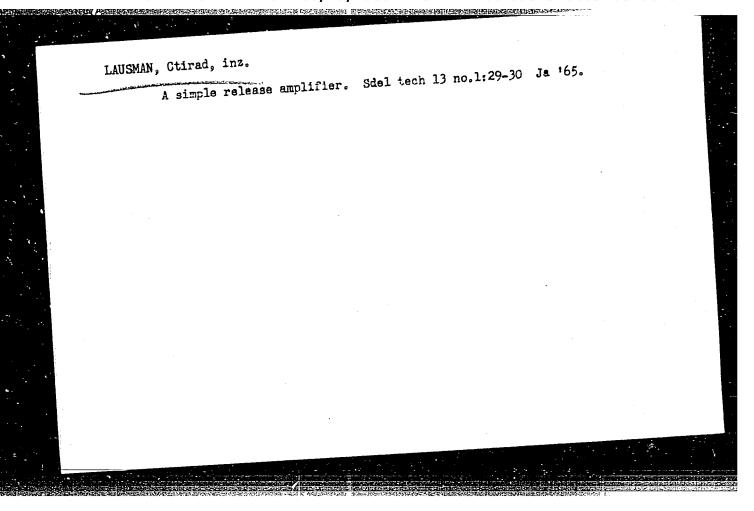
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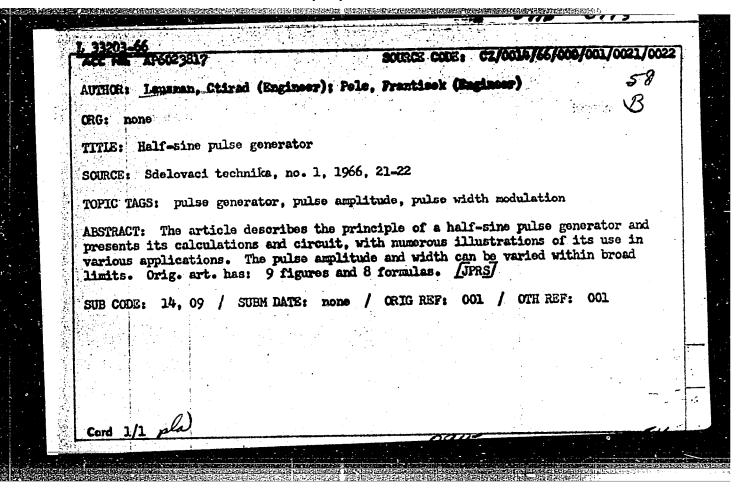
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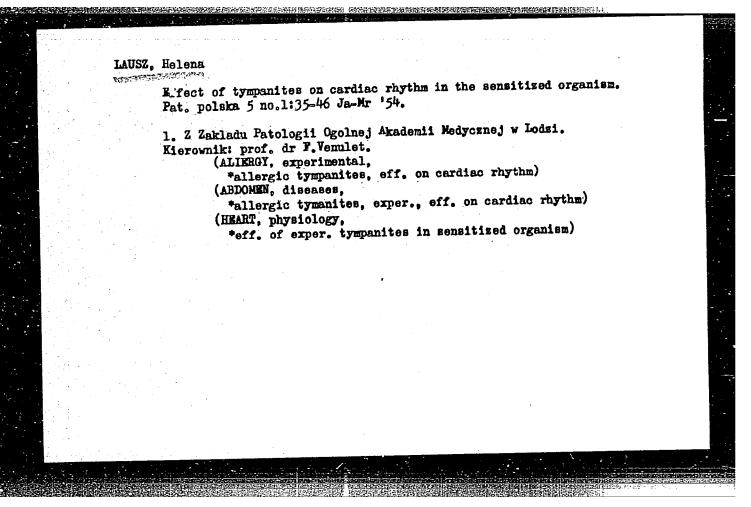
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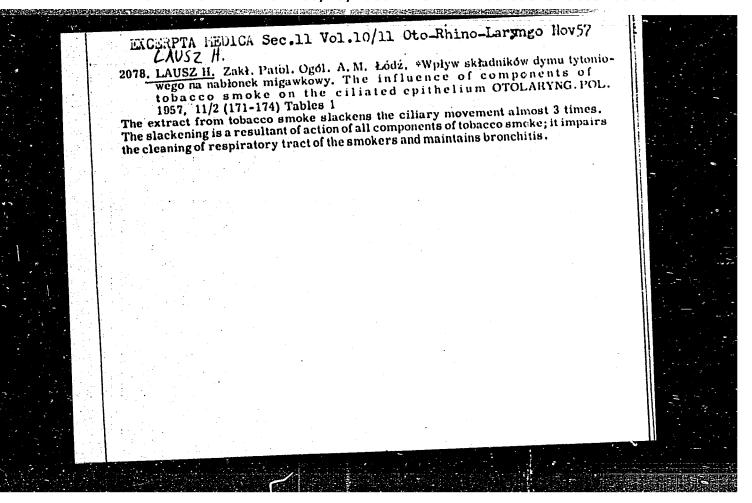
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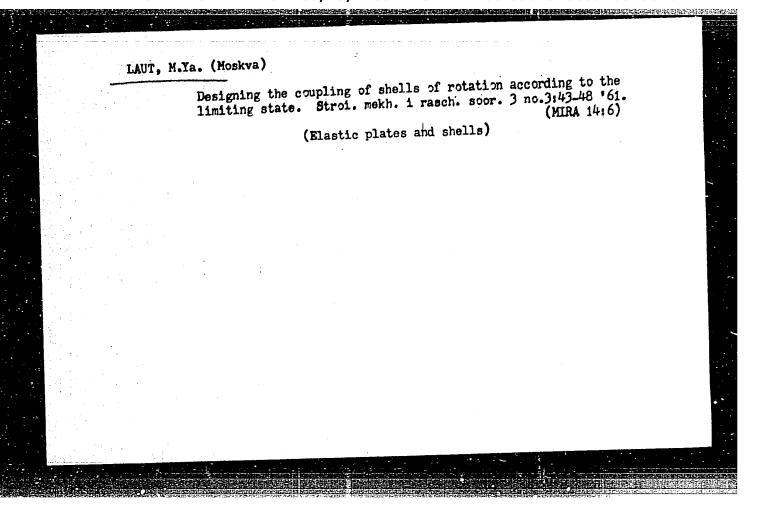
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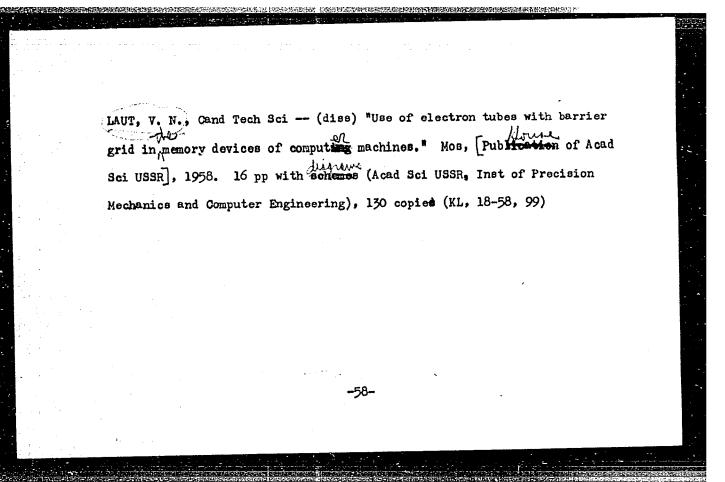
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TUBIN, S.M., kand. tekhn. nauk, red.; LAUT, M.Ya., inzh.
red.; LARIONOV, A.A., inzh., red.; BALIKHIN, M.I., red.;
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Translation No. 596, 8 Oct 56

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- Zapominayushcheye ustroystvo na elektronno-luchevykh trubkakh bystrodeystvuyushchey elektronnoy schetnoy mashiny Akademii Nauk SSSR (Cathode-Ray Tube Memory Device in the High-Speed Electronic Computer of the Academy of Sciences, USSR) Moscow, Izd-vo AN SSSR, 1957. 88 p. 5500 copies printed.
- Sponsoring agency: Akademiya Nauk SSSR. Institut tochnoy mekhaniki i vychislitel'noy tekhniki.
- Responsible Ed.: Lebedev, S.A., Member of the Academy; Ed. of the Publishing House: Kudashev, A.I.; Tech. Ed.: Moskvicheva, N.I.
- PURPOSE: This book is published to present the results of work done at the Academy of Sciences, USSR, in developing and designing a high-speed electronic computer and, in particular, its memory devices. This monograph is intended for specialists in computing machines.
- COVERAGE: The Academy of Sciences high-speed electronic computer (RESM) and its internal memory device (VZU) both operate in parallel, which permits computation speeds much higher than those obtainable with memory devices operating in series. Three basic types of cathode-ray tubes (CRT) were investigated for Card 1/8

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use as electrostatic storage tubes: 1) Ordinary oscillotrons. 2) Cathoderay tubes with internal regenerative feedback. 3) A special barrier-grid storage tube developed by the Ministry of Radio Engineering and designated the LN-1 "potentsialoskop". This tube contains an aluminum backplate covered with a dielectric coating consisting of an aluminum dioxide film, a barrier grid placed at a distance of 0.2 mm from the backplate, and a collector consisting of a circular conducting aquadag coating on the inside glass surface of the tube. The operation of the tube is based on the utilization of Becondary electron emission with a secondary-emission ratio of e max > 2. The ordinary oscillotrons (1) were found to be the cheapest from the point of view of production and to have a long life, but they have low resolution, greater screen nomuniformity, low output signal level and a lower stability caused by current drift. The CRT with internal regenerative feedback (2) can be operated without external feedback; however, these tubes are more complicated to produce and control than then the other two types. The LN-1 tube (3) was found to be comparatively simple to produce and to have a simple writing and reading control system; its output signal is of an order larger than that of the other two types of tubes, it has greater resolution and lower dynamic range between signal and noise. These advantages determined the final structural development and serial production of this type of tube.

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The following are some of the basic parameters of the LN-1 storage tubes (under testing conditions established by the Ministry of Radio Engineering Industry): 1) The useful number of storage elements is 1024 with 400 scannings permissible in neighboring elements without regeneration of the input signal stored at a particular element (100 writings and 100 readings of "1" and 100 writings and 100 readings of "0"). 2) The capacity-discharge reading time of a particular element is 5 Msec. 3) The signal current is about 10 Ma. 4) The beam-deflection sensitivity is 0.35 mm/v. The deficiencies of LN-1 storage tubes are as follows: 1) For beam positioning necessary in the selection of a particular target element a strictly determined potential is required which, in turn, requires a high quality of nower supply. 2) The same strict quantitative requirement applies to writing code differentiation ("1" from "0"). 3) The retention time of a stored charge pattern is comparatively low. 4) The large dynamic range between the reading and writing signals leads to a loss of sensitivity of the reading amplifier. The BESM has the following basic parameters: 1) it contains 39 operating and 9 reserve memory sets; 2) each set has 1024 storage elements; 3) the maximum operating frequency is 80 kc; 4) the permissible number of scannings in neighboring elements (when writing "l" in them) without regeneration of the input signal stored at a particular element, is 500; 5) there are 1073 vacuum tubes,

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431 diodes and 39 special CRT of the LN-1 type; of these, 200 vacuum tubes and 112 diodes are used only in the control device; 6) there are 378 blocks standard for the BESM, and 7) 240 standard VZU blocks. The use of interchangeable standard blocks in the VZU increased somewhat the number of tubes but made the production and the operation of the computer easier. Almost all vacuum diodes can be replaced by semiconductors. According to the authors, the VZU developed by the Academy can be compared in speed of operation with similar devices of foreign construction, for example with the IEM-701. Also, the permissible number of readings without regeneration is 500 for the VZU, more than 3 time greater than the 148 of the IBM-701 memory device. The VZU also has decided advantages over the high-speed M-2 computer of the Power Engineering Institute, AS USSR, which is equipped with oscillotrons, with 512 storage elements and 170 permissible readings from a particular element without erasing information stored in adjacent elements. A new type of "potentialoskop," the LN-4, makes it possible to obtain four times as many memory elements and twice as many readings without regeneration as can be obtained with the LN-1. There are possibilities of further improvement in this type of CRT, which is not true of ordinary oscillotrons. These CRT have the disadvantage of shorter life (1000 to 2000 hrs) and higher cost, because until recently they were produced in the laboratory, and industrial production started only recently and in small quantities. This

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disadvantage is compensated by the fact that one LN-4 tube can provide the same number of memory elements as 8 oscillotrons. The high-speed operation of these tubes is expected to exceed 100 to 120 kc, and this is why in the very high-speed computers requiring 100 to 200 thousand operations per sec and a large storage volume only this special type of tube can be applied. The VZU was developed by a group of engineers under the supervision of the chief designer of the BESM, S. A. Lebedev, Member of the Academy. The following engineers worked on the project: V. N. Laut and L. A. Lyubovich (authors of the monograph), I. D. Vizun, A. V. Avayev and V. S. Mitrofanov. Engineers O. K. Shcherbakov and Yu. I. Vizun participated in the development of stabilized power supplies. The authors thank the following persons for help in preparing the monograph: A. M. Litvinov and Ye. I. Mamonov, Candidates of Technical Science, and A. Ya Tyurin, V. A. Mel'nikov and A. N. Zimarev, engineers. According to the authors, the problem of development of the potentials which an insulated target element or a free electrode will acquire under the influence of electron bombardment was first investigated in 1935 by S. I. Katayev (p. 15). The monograph is illustrated by photography, oscillograms, connection diagram, graphs and drawings. There are 12 references, of which 8 are Soviet (including 2 translations) and 4 English.

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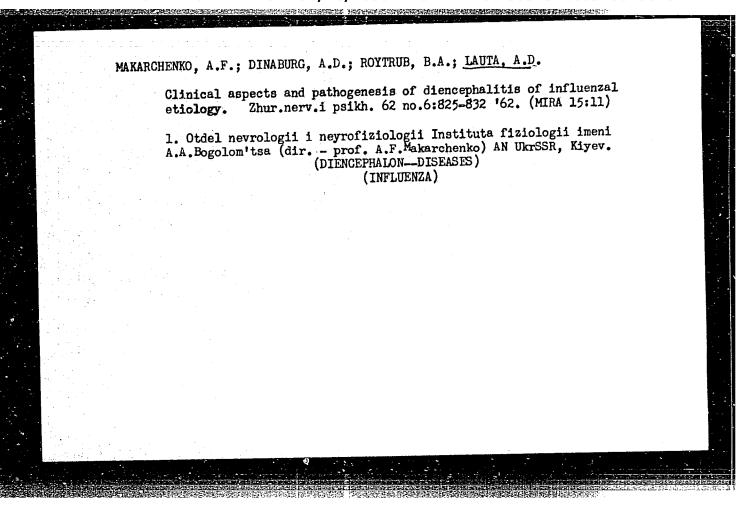
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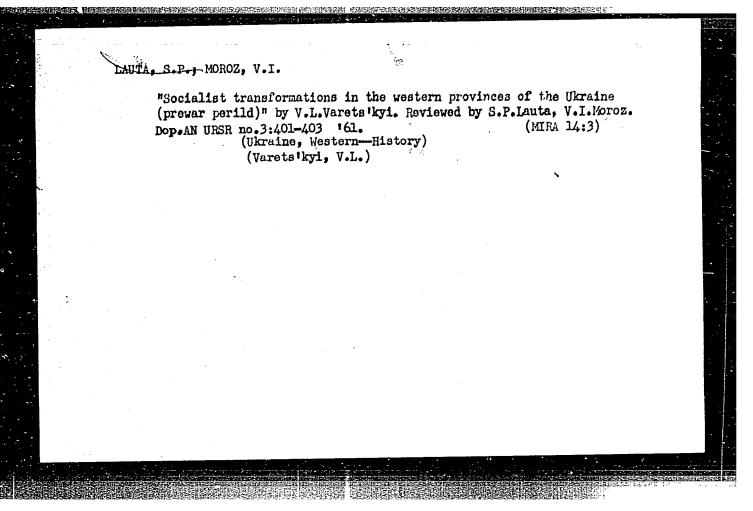
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GORBACH, N.L. [Horbach, M.L.]; SAYENKO-LYUBARSKAYA, V.F. [Saienko-Liubars'ka, V.F.]; LAUTA, A.D.; YERYSH, A.I. [IErysh, A.I.]; KLEBARCVA, L.B.

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AUTHOR:

Lauter, E.A.

TITLE;

Proof of the influence of the solar cycle on the

lower ionosphere

PERIODICAL:

Referativnyy zhurnal, Gcofizika, no. 12, 1962, 29-30, abstract 12G208 (Gerlands Beitr. Geophys., 71, no. 1,

1962, 58-61 (Ger.; summary in Eng.))

TEXT: The influence of the solar cycle on the results of multiyear (1951-1959) absorption measurements, made on low frequencies (245 kc/s) at Kjulungsborn (E. Germany), is considered. The measurements consisted of the recording of the radio emission reflectance of a transmitter, situated at a distance of 180 km. The difference in absorption between the sunspot maximum and minimum is a function of the sun's zenith angle χ . Superposition of deflecting and non-deflecting absorptions induces a well expressed maximum (\sim 15 db) in the difference of attenuations when χ = 70°. If the magnitude of χ is constant and close to the peak value, Card 1/2

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the mean monthly values of L' correlate well with the relative sunspot number R and less well with the magnetic activity index A. The toal coefficient of correlation equals 0.96, but repression linearity lasts only up to R = 150. For higher solar activity the properties of the D-region vary little as the magnitude of R increases.

/Abstracter's note: Complete translation /

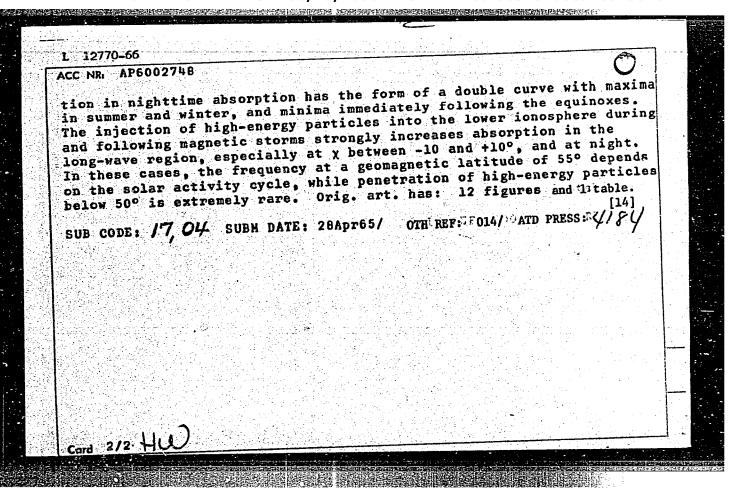
Proof of the influence ...

Card 2/2

CC NR: A	56 EWT(1)/FCC GW 56 EWT(1)/FCC GW 50 SOURCE CODE: UR/0203/65/005/006/1034/1045	
AUTHOR:	Lauter, Ye. A.; Khruskova, Yu.; Nestorov, G.; Shprenger, K.	
DPG. To	nospheric Research Observatory, Kühlungsborn, GDR (Observatori- 5 /	
va ionos	fernykn issiedovaniy	
	Variations in ionospheric absorption with respect to time and the long-wave region when the sun is low and at night	
SOURCE:	Geomagnetizm i aeronomiya, v. 5, no. 6, 1965, 1034-1045	
TOPIC TA	GS: ionospheric absorption, ionospheric radio wave, solar ac-	
tivity	The state of the s	
al year lines up lationsl and med 400 kc. The	The authors give the results of measurements made over sever- s by the atmospheric probe method in the long-wave region on to 350 km long in Middle and Eastern Europe. The frequency is given for midnight absorption in the long, medium-long in the long is given for midnight absorption in the long, medium-long lum wavelength regions with a maximum of about 17 db at 200 to lum wavelength regions with a maximum of about 17 db at 200 to lum wavelength regions with a maximum of about 17 db at 200 to lum wavelength regions with a maximum of about 17 db at 200 to lum wavelength regions with a maximum of about 17 db at 200 to lum wavelength regions in incomplete absorption in the long-wave ediurnal variation in ionospheric absorption in the long-wave when the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows that absolutely nocturnated the sun is low and at night shows the sun is low and at night shows the sun is low and at night shows the sun i	1
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EWT(d)/EWT(1)/FCC/EWP(j)/EWA(h) RB/GW/WS-2 ACC NR: (AP6002749 SOURCE CODE: UR/0203/65/005/006/1046/1051 AUTHOR: Lauter, Ye. A.; Trzhiska, P. 36 ${\mathcal S}$ Ionospheric Research Observatory in Kühlungsborn, GDR (Observatoriya ionosfernykh issledovaniy) TITLE: Annual variation of absorption in the ionosphere in the medium and long-wave regions SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 6, 1965, 1046-1051 TOPIC TAGS: ionospheric absorption, ionospheric radio wave ABSTRACT: The authors compare the results of absorption measurements (atmospheric probe method) in the middle latitudes on equivalent frequencies of 125, 185, 730, and 1000 kc. A strong reduction is observed in the intensity of the winter anomaly as the frequency decreases. Measurements at a constant zenith angle x show that the winter anomaly increases with altitude in the mesopause region. The absorption shows a minimum at all frequencies in the spring (April). It is shown that the annual behavior of absorption in the 150-500-kc range has two sharply defined maxima -- one in the summer and one in the winter. ... summer (May -September) anomaly of increased absorption predominates in the lower UDC: Card 1/2 550.388.2

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frequency region. Absorption anomalies are also nearly fully developed at solar zenith angles between 100 and 9.0°. Therefore if the redat solar zenith angles between 100 and 9.0°. Therefore if the redationship $\cos^n \chi$ is used to describe the diurnal variation in total lationship $\cos^n \chi$ is used to describe the diurnal variation in total absorption, the exponent n is underestimated. The authors discuss the absorption, the exponent n is underestimated. The authors discuss the absorption of the observed annual variations of processes in the D significance of the observed annual variations of processes in the D significance of the ionospheric plasma with regard to the structure and dynalayer of the mesosphere. Orig. art. has: 3 figures, 1 table, and 2 formics of the mesosphere. Orig. art. has: 3 figures, 1 table, and 2 formics of the mesosphere.				
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AUTHORS:

Poláček, J., Engineer; Lauterbach, J.; Vošahlík, R.;

and Kulíšek, B.

TITLE:

Theory and application of explosive metal forming

PERIODICAL:

Strojírenská výroba, v. 9, no. 5, 1961, 240 - 245, 248

TEXT: The Závody na výrobu vzduchotechnických zařízení, n. p. Milevsko, (Plant for the Production of Pneumatic Equipment, Milevsko) is preparing the introduction of explosive forming for VIC pressure containers mounted on RR carriages. The article describes tests on a one-third-size model (actual dimensions of the vessel are shown in Fig. 1), performed to study the technology of this advanced metal forming method. Factors which must be considered in explosive forming are: (1) Choice of a suitable explosive charge; (2) the transmitting medium; (3) shape, dimensions and material of the mold; (4) material for forming; and (5) technological preparation of the working site. All types of brisant explosives are suitable for explosive forming. Those used in the described tests were cast TNT, plastic

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Theory and application ...

NP 10, gelatine high explosive (Perunit 20) and ammonium nitrate high-explosive powder. Properties of Czechoslovak commercial explosives are listed in Table I. The plastic NP 10 explosive was chosen for testing of annular-, ball-, rod-, and pear-shaped charges. The annular shape is not suitable since it is not possible to ignite the entire ring simultaneously and the blank corrugates and tears. The ball-shaped charge (Fig. 4) is more suitable and can be ignited with one detonator placed in the center. However, great pressure acts on the bottom of the mold and a secondary reaction presses the blank upwards with a resultant negative influence on the final shape of the forging. Better results were achieved with rod-shaped charges which can be ignited either at the top, at the middle, or at the bottom (Fig. 6). When bottom ignition is applied (Fig. 7), shockwaves disperse conically and the pressure acting on the mold bottom is considerably smaller, reaching only 2,000 - 2,500 kg/cm². Since the top part could not be drawn out completely with any of these charge shapes, a modified pear-shaped charge was tested which was suspended with the smaller end downwards and ignited at the bottom.

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Theory and application ...

However, the desired effect was still not reached. Since empirical results are still insufficient, the proper charge shape and initiation point will have to be experimentally found for each specific case. Water was used in the tests to transmit the explosive force to the blank. The more advantageous closed mold (requiring smaller charges) could not be used since the mold in this specific case would have been too heavy. However, in the upper regions of an open mold, the transmitted pressure rapidly decreases due to the dilution of the transmitting medium, which explains the fact that the upper regions of the blank were not drawn out completely. The mold used in the tests consisted of two welded halves made of 11 523 grade steel sheet. The mold shell was reinforced by 2 strong hoops and a number of radial struts. The mold was not annealed, despite the large number of welds which caused considerable stresses, and was loosely placed on the base plate. The blank was secured either by clay to the steel base plate, or by a 50 mm thick rubber lining clipped to the blank. The tests revealed that the mold bottom should be made of a material with elastic properties. The originally used 50 and 80 mm thick plates of rolled 11 370 steel bent and Card 3/16

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Theory and application ...

ruptured after several tests with the grain structure of the fracture resembling that of cast steel. When covered with a 50 mm rubber lining, the steel bottom plates resisted shock waves till the lining was mechanically damaged. A gap formed by placing spacers between the two mold halves facilitated air escape from the space between the mold and the blank. The gap width was varied within the range of 2 - 6 mm. Since the tests were made in an open mold, adequate safety measures had to be taken. When observing the safety regulations of Edict no. 305, published in issue 132 of the Uřední listy (Official Bulletin), dated Oct 24, 1952, explosive forming does not imply any more danger than common pressing. Approximately 45 tests were performed on the rather large one-third-size model. They revealed some technological problems which would not have been recognized had the tests been performed with a smaller model. The gathered experiences, which led to the final design of the mold, can be summarized as follows: (1) Most advantageous is a rod-shaped charge with bottom initiation; (2) the shock-wave effect on the bottom of the mold must be reduced by increasing the distance

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